

Appl. No. 10/714,970
Amendment dated: September 9, 2005
Reply to OA of: July 27, 2005

Amendments to the Specification:

On page 3, please replace the last full paragraph which bridges page 4 with the following amended paragraph.

In accordance with an aspect of the invention, a heat dissipating fan includes a cover plate having an air inlet and a base, an impeller mounted to the base and having a plurality of blades, and an air guiding member having an air passageway and an air outlet. A portion of an axial height of the respective blade, as well as a portion of the axial length of the hub portion, is received in a first section of the air passageway of the air guiding member so as to reduce an overall thickness of the combination of the fan unit and the air guiding member, and to remain a second section of the air passageway of the air guiding member below the hub portion of the fan unit. [[Side]] Auxiliary side inlets are defined between the cover plate and the air guiding member. Air intake occurs simultaneously in the air inlet and in the side inlets when the impeller turns, driving airflow the side wall of the air guiding member confining cool air in the second section of the air passageway to pass through near regions below the hub portion o the fan unit and then to exit the air outlet in a predetermined direction. The air guiding member includes a sidewall, and the air passageway is defined between a first end and a second end of the sidewall. The first end of the air guiding member connects to the cover plate in a stacked relationship, and the air outlet of the air guiding member is proximate to the second end of the air guiding member beyond the fan unit such that the air outlet disposed at the second end can be expanded.

On page 5, please replace the last full paragraph which bridges page 6 with the following amended paragraph.

The impeller 20 is rotatably mounted to an upper side of the base 12 that faces the cover plate 10. The impeller 20 and the cover plate 10 together form a fan unit 1.

Appl. No. 10/714,970

Amendment dated: September 9, 2005

Reply to OA of: July 27, 2005

The impeller 20 includes a plurality of blades 21 on an outer periphery thereof for driving air. The air guiding member 30 is made of plastics or metal and includes a second engaging portion 31, an air passageway 32, an air outlet 33, and a plurality of auxiliary side inlets 34. In this embodiment, the second engaging portion 31 includes a plurality of posts each having a screw hole 310 aligned with the respective through-hole 14 of the cover plate 10. A fastener 40 is extended through the respective through-hole 14 of the cover plate 10 and the respective screw hold 30, thereby fixing the cover plate 10 to the air guiding member 30. As illustrated in Fig. 3, a portion of the axial height of the respective blade 21, as well as a portion of the axial length of the hub portion, of the impeller 20 is received in a first section of the air passageway 32, with a space being defined between the cover plate 10 and the air guiding member 30, forming the side inlets 34 in the fan unit 1, reducing an overall thickness of the combination of the fan unit and the air guiding member 30, and remaining a second section of the air passageway 32 of the air guiding member 30 below the hub portion of the fan unit. The air passageway 32 guides the airflow toward the air outlet 33. The air outlet 33 is oriented in a predetermined direction, e.g., directly below the air guiding member 30. The air guiding member 30 includes a sidewall, and the air passageway 32 is defined between a first end and a second end of the sidewall. The first end of the air guiding member 30 connects to the cover plate 10 in a stacked relationship, and the air guiding member 30 further includes an air outlet proximate to the second end of the air guiding member 30 beyond the fan unit such that the air outlet disposed at the second end can be expanded.

On page 6, please replace the first full paragraph beginning on line 8 with the following amended paragraph.

As illustrated in Fig. 3, when the impeller 20 turns, air intake occurs simultaneously in the air inlet 11 and in the side inlets 34 through operation of the blades 21 of the impeller 20. The airflow exits the heat dissipating fan from a position

Appl. No. 10/714,970
Amendment dated: September 9, 2005
Reply to OA of: July 27, 2005

directly below the air guiding member 30, dissipating heat of an object (e.g., a power supply or a casing of a personal computer, not shown) or proceeding with air current exchange. Since additional air is inputted by the impeller 20 via the side inlets 34, the air inlet amount is increased. Further, the air passageway 32 of the air guiding member 30 guides the outgoing air in a predetermined direction; namely, the airflow direction can be guided. The side wall of the air guiding member 30 can confine cool air in the second section of the air passageway 30 to pass through near regions below the hub portion of the fan unit and then to exit the expanded air outlet in a predetermined direction.